

Product Information

OSR1, GST-tagged, human recombinant, expressed in *Sf9* cells

Catalog Number **SRP5356**
Storage Temperature -70°C

Synonyms: OXSR1, KIAA1101

Product Description

OSR1 is a member of the Ser/Thr family of protein kinases. OSR1 is activated by osmotic stresses and regulates downstream protein kinases such as PAK1 in order to establish the sensor/signaling modules that initiate the cellular response to environmental stress.¹ OSR1 can be phosphorylated by ATM or ATR during DNA damage process.²

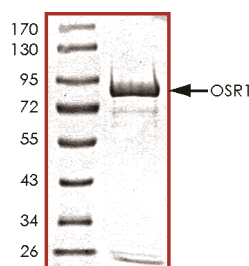
Recombinant full-length human OSR1 was expressed by baculovirus in *Sf9* insect cells using an N-terminal GST-tag. The gene accession number is NM_005109. It is supplied in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~86 kDa

The enzymatic activity of this product has not been determined.

Figure 1.

SDS-PAGE Gel of Typical Lot:
 $\geq 70\%$ (SDS-PAGE, densitometry)



Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

References

1. Chen W. et al., Characterization of OSR1, a member of the mammalian Ste20p/germinal center kinase subfamily. *J. Biol. Chem.*, **279**, 11129-11136 (2004).
2. Matsuoka S. et al., ATM and ATR substrate analysis reveals extensive protein networks responsive to DNA damage. *Science*, **316**, 1160-1166 (2007).

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